

NUMERICAL RUSSIAN DOLLS

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Numerical Russian Dolls can be viewed as the numerical equivalent of Words in Words. The latter include ME inside COT in coMEt, RACE inside TRY in tRACeRy and PEAK inside SING in sPEAKIng. One word is surrounded by another, the latter being formed by bringing together letters from the beginning and end of the parent word.

In the numerical version, the numerical total of a letter/group of letters *inside the parent* is equal to the numerical total of letters from the beginning and end of the parent word.

Thus in MATURED T + U = 41, and M + A + R + E + D also = 41. MATURED is listed under 41 below. Words shown in **bold** offer more than one solution.

Most of the words can be found in the Oxford English Dictionary 2nd Ed. and/or in Webster's 2nd Ed.

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|-------------|------------|------------|--------------------------------|---|-----------|-------------|--------------------------------|---------|
| 2 ABA | 3 BABA | 4 CAABA | 5 DADA | 6 BEAD | 7 ABBED | 8 CAGE | 9 EBBED | 10 FEED |
| 11 AKEE | EACHE | 12 CAKED | JAFFA | 13 DALI | HIDE | 14 LAMB | ADEEM | |
| 15 JANE | ALBAN | 16 ALDO | HIGH | 17 CHIN | PLEA | 18 CRACK | DEEMED or DEEMED | |
| 19 ASIDE | ABLER | FARM | BODICE | 20 ITCH | LASH | BACKER | PANED | \\PANDA |
| 21 GUN | BIERCE | STAB | CAMBER | 22 HIVE | GUANA | COGS | GIMBAL | LARDED |
| 23 JAWL | RAVE | LINK | HERO | 24 FIXED | EASER | SLICE | LAVAL | FILLED |
| 25 KEYED | TEASE | FALLS | DETACHED | 26 HAZEL | AIOUEA | GILES | HATER | |
| 27 CIRCLED | GENEVA | HAFTS | SEARCH | 28 MARIO | RHOMB | CANNES | | |
| 29 PHONE | HITACHI | CHUGS | AMPERE | 30 BLOOP | LAXER | KINGS | GINGER | |
| 31 GERMS | HIVER | LOPS | BIZET | 32 JAWING | HOPPED | MINIS | NEVER | |
| 33 RONDO | RACoon | JENNER | CORONA or CORONA | | | | | |
| 34 RUMP | COSHER | TENON | CLONES | 35 ATONABLE | JUNKIE | PANTS | OCELOT | |
| 36 FLOUR | BAPTISE | MARRIAGE | RIVER | 37 MOVES | PUPIL | LIKELY | SAILOR | |
| 38 ASSEMBLE | TETHER | SEDUCES | SPECIES | 39 TARTAR or TARTAR | SANEST | THEFTS | THIRDS | |
| 40 DUSKY | NATTY | LOUDENED | TITBIT | 41 MATURED | CRYPT | BOOZES | JUTLAND | |
| 42 DOWSER | MUTATED | MISERABLE | | 43 MINTING or MINTING or MINTING | YAWNER | | | |
| | | | | | YEARNER | RECTIFY | | |
| 44 YORKS | LECTURED | SOLELY | SMOKEY | 45 SCULLER | SAUCILY | VILIFIER | TENDENCY | |
| 46 CLAYMORE | DRAGONISE | UNCANNY | | 47 SIXERS | DESECTION | VEILEDLY | | |
| 48 ENTHUSED | CONSIDERED | SUNFISH | | 49 OUTHAUL | EFFUSCION | SACRIFICING | | |
| 50 SWIRLS | SHREWDER | YEVEY | | 51 SWISHES | POSHEST | WINNERS | ROUGHIES | |
| 52 NUZZLE | ROMANIANS | WILDEBEEST | | | | | | |

As the numerical totals get progressively larger, examples can be found in which the inner number total, in particular, can be achieved by arranging the **same letters*** in different ways.

letters*

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|--------|----------|-------------|---------------|----------|---------------------|
| 46 IRS | HEIRSHIP | MISREADER | TAMARISK | COARSISH | GUIDSIRE |
| OOP | POOPING | BRACHIOPODA | SPOONAGE | | |
| LOS | ENCLOSES | WILSON | POLSTEAD (UK) | CROSLET | DISLOCATED MESOLINE |

- 47 NOR SNORKEL UNROBES DEMONRY DEHORNING GURNOS (UK) FRONDLET
 IRT KIRTLES CITRYNE IRRITABLE CERTIFIES RETIRES PATRIARCH
 ISS MISSHAPED FANTASISE CLASSIFY
- 48 IST REALISTIC GAITSKELL PARASITIC ESTIMATED MANTISSA
 GINR GANGRINATE STRINGED OFHINGROD
 OOR FLOORING SPOROID ENROOTED
- 49 LPU NAIL-PUNCH ILLUPIS REPLUNGE STIPULA PULPIFIED SCRUPLED
 OPR GALLOPRAKE SCORPIDIDA EXPORT IMPROVE ATROPINE AIR-POCKET
 NOT DINOTHERE CHANTORS PRONTO INTONATE
 ISU INCISURE GIUSEPPE CHESIUNS ISSUING GUISEERS PARAGEUSIA
- 50 NOU HONOURED SINUOPEA (genus of Gastropod) HONURES TROUNCED JEJUNOCAECAL
 OOT SHOOTER PHOTONIC TATTOOED
- 51 OPT HOOP-TREE SHOT-PEEN DASH-POTS CHAPTOUR BLASTOPHAGA MAST-POND
- 52 LSU DELUSTRE UNSLUICE INSULTED PULSIVE GOUSLING
 MRU IMMURING THERMUS (genus of bacteria) SCRUMMAGED SURMISE

So far, we have looked at parent words which hold an inside letter/group of letters which has the same numerical total as that formed by bringing together letters from the beginning and end of the word. It is however possible to progress to a higher level. Consider the word HUMMER (listed under 26 below) with its numerical total of 78. This is made up of M + M = 26 inside U + E = 26 inside H + R = 26. Here are more such triples:

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|------------------------|-------------------------|--------------------------|--------------------------|----------------------|
| 8 <u>CACHED</u> | 9 <u>DEIDE</u> | 10 <u>AIAIAI</u> | 11 <u>CAECHEDD</u> | 12 <u>BEAGLED</u> |
| 13 <u>CABBAGEHEAD</u> | 14 <u>DEFENCE</u> | 15 <u>BIGHEADED</u> | 16 <u>DECAPOD</u> | 17 <u>PHOBIA</u> |
| 18 <u>MCBRIDE</u> | 19 <u>ANISEED</u> | 20 <u>PANTED</u> | 21 <u>CLUBBER</u> | 22 <u>DELVER</u> |
| 23 <u>SAW-BACKED</u> | 24 <u>SALT-CAKE</u> | 25 <u>TRUDGE</u> | 26 <u>HUMMER</u> | 27 <u>SANDWICH</u> |
| 28 <u>PHRASIAL</u> | 29 <u>INELEGANT</u> | 30 <u>LAMPMAKER</u> | 31 <u>LABELLINGS</u> | 32 <u>MECHANISES</u> |
| 33 <u>ISOTHERE</u> | 34 <u>PERFUMER</u> | 35 <u>PREJUDGES</u> | 36 <u>QUARRIES</u> | 37 <u>LEONINELY</u> |
| 38 <u>STORERS</u> | 39 <u>STATEMENT</u> | 40 <u>UNGULATES</u> | 41 <u>PREMAMMARY</u> | 42 <u>UNSMELLING</u> |
| 43 <u>MERCURATING</u> | 44 <u>SOLIDARITY</u> | 45 <u>SELF-REVEALING</u> | 46 <u>UNTENDERLY</u> | |
| 47 <u>VORTICITY</u> | 48 <u>WOUNDINGLY</u> | 49 <u>IMPERVIOUS</u> | 50 <u>TONGUE-WAGGING</u> | |
| 51 <u>OVERSTRIDDEN</u> | 52 <u>SUBDIVISIONAL</u> | | | |

Finally, some Russian Dolls are special in that they are also Words in Words. In the word WISE, not only does W + E = 28 = I + S, but WE and IS are words in their own right. Here are others of the genre:

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|--------------------|-------------------|---------------------|-------------------|----------------------|--------------------|
| 13 <u>HALE</u> | 14 <u>MAIDA</u> | 15 <u>FANED</u> | 16 <u>CHAGAL</u> | 17 <u>APACHE</u> | 18 <u>DEEMED</u> |
| 19 <u>ADOLF</u> | 20 <u>ABIDES</u> | 21 <u>BODICED</u> | 22 <u>CAHIER</u> | 23 <u>NODDED</u> | 24 <u>ADIOS</u> |
| 25 <u>SEPIA</u> | 26 <u>FORAGE</u> | 27 <u>FLOAT</u> | 28 <u>DENISE</u> | 29 <u>TONED</u> | 30 <u>RECLANG</u> |
| 31 <u>HOLDER</u> | 32 <u>SCRIBAL</u> | 33 <u>OTHER</u> | 34 <u>SUMO</u> | 35 <u>BARTON</u> | 36 <u>BACKLESS</u> |
| 37 <u>HELIPADS</u> | 38 <u>SOLATED</u> | 39 <u>TASSAR</u> | 40 <u>SALIENT</u> | 41 <u>CARPETS</u> | 42 <u>BUCOLICS</u> |
| 43 <u>MINTING</u> | 44 <u>SPRAYED</u> | 45 <u>TEALEAVES</u> | 46 <u>REWINDS</u> | 47 <u>DECINORMAL</u> | |
| 48 <u>REROOFS</u> | 49 <u>SWAYING</u> | 50 <u>HOWLERS</u> | 51 <u>POSHEST</u> | 52 <u>RURALITE</u> | |

Above, the numerical total of letter groups has been limited to 52. This is partly arbitrary and partly because 52 is the highest number which can be represented by just two letters, specifically ZZ. There is no other reason not to proceed beyond 52 as, indeed, is demonstrated by ROTHSCHILD 58.